

AMENDMENTS TO THE SPECIFICATION:

Please amend the indicated paragraphs of the specification in accordance with the amendments indicated below.

Page 1: 1st full paragraph, amend as indicated below:

The invention relates to a Pockels cell ~~in accordance with the preamble to the main claim, that is,~~ with two successive preferably identical parallelepiped RTP crystals that are oriented in the direction of radiation for thermal compensation to one another, that are arranged spaced from one another, and that have a rectangular cross-section, of which each is provided with electrodes on two opposing surfaces, whereby these surfaces of the one crystal are rotated by 90° to those of the other crystal with respect to the direction of radiation.

Page 1: 3rd full paragraph, amend as indicated below:

However, in these known Pockels cells it is disadvantageous that the thermal compensation only functions when the preferably identical crystals have exactly the same length. Once the crystals absorb a portion of the laser radiation that falls in the direction of radiation, ~~[[it]]~~ the laser radiation is converted locally to heat energy and leads to an increase in the temperature, which can lead to a situation in which due to a different thermal expansion the crystals are not the

same length, which is undesirable. In addition, differences in the design index, caused by temperature differences, along the direction of radiation in the crystals have a negative effect on the compensation effect.

Page 1: 4th full paragraph, amend as indicated below:

The object of the invention is therefore to further develop a generic Pockels cell ~~in accordance with the preamble to the main claim~~ such that the thermal compensation is maintained despite the laser radiation being partially absorbed by the crystal.

Page 2: 1st full paragraph, amend as indicated below:

This object is inventively attained in a generic Pockels cell ~~in accordance with the preamble to the main claim~~ by its characterizing features in that the exterior sides of the electrodes are provided with flexible, electrically insulating, high voltage-proof plastic or rubber mats that conduct heat well and in that these are adjacent to the interior side of a cooling body.

Page 3: 2nd full paragraph, amend as indicated below:

~~Additional useful designs and further developments of the invention are characterized in the subordinate claims.~~

Page 4: 1st full paragraph, amend as indicated below:

The one of the two electrodes 8 is preferably embodied in one piece and point-symmetrical with respect to a point of symmetry 30 (Figure 1b), which ~~[[are]]~~ is rotated 90° to one another about the axis of symmetry 31 running parallel to the direction of radiation 5 through the point of symmetry 30. The other electrode 9 is embodied in two pieces such that the point of symmetry 30 is spaced equidistant from the two individual parts 30a, 30b and axes of symmetry define two points of symmetry 8 and 9, if any.

Page 4: 3rd full paragraph, amend as indicated below:

The receiving region 14 of each half shell 13A, 13B has two planar support surfaces 16, 17 that are at a right angle to one another and that extend parallel to the direction of radiation 5, of which support surfaces the one faces one electrode and the other faces an electrode-free surface of each crystal.